

**ABSTRACT**

- 5           The invention is directed to a process for multilayer coating of substrates which comprises
- a)       applying a filler layer of a filler coating composition to a substrate,
  - b)       curing the resultant filler layer by irradiation with high energy radiation and
  - 10    c)       applying a top coat layer to the cured filler layer and curing the top coat layer,
- whereby the filler coating composition comprises
- A)       at least one binder capable of free-radical polymerization having fewer than three olefinic double bonds per molecule,
  - 15    B)       at least one ester of alpha,beta-olefinically unsaturated monocarboxylic acids capable of free-radical polymerization having one olefinic double bond per molecule and
  - C)       at least one compound having at least one phosphoric acid group.

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